

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-4. (cancelled without prejudice).

5. (Currently amended) A nano carbon ball for deodorization comprising a ~~porous carbon~~ mesoporous shell and a having a spherical hollow core, wherein said mesoporous shell comprises carbon, and wherein said nano carbon ball is impregnated with at least one metal composition selected from the group consisting of a transition metal, ~~an oxidized~~ a transition metal oxide, an alkali metal salt, and mixtures thereof, ~~wherein said metal is impregnated into the shell.~~

6. (Currently amended) The nano carbon ball according to claim 5, wherein the transition metal is selected from the group consisting of copper, iron, manganese, nickel, cobalt, silver, gold, vanadium, ruthenium, titanium, ~~chrome~~ chromium, zinc and palladium.

7. (Currently amended) The nano carbon ball according to claim 5, wherein the ~~oxidized~~ transition metal oxide is selected from the group consisting of ~~oxidized~~ the oxides of copper, iron, manganese, nickel, cobalt, silver, gold, vanadium, ruthenium, titanium, ~~chrome~~ chromium, zinc and palladium.

8. (Previously presented) The nano carbon ball according to claim 5, wherein the alkali metal salt is selected from the group consisting of sodium bromide, sodium iodide, potassium bromide, potassium iodide and potassium iodate.

9. (Previously presented) The nano carbon ball according to claim 6, wherein the transition metal is copper and manganese.

10. (Previously presented) The nano carbon ball according to claim 6, wherein the transition metal is copper, iron and zinc.

11. (Previously presented) The nano carbon ball according to claim 6, wherein the transition metal is vanadium, ruthenium and titanium.

12. (Previously presented) The nano carbon ball according to claim 8, wherein the alkali metal salt is potassium iodide.

13. (Currently amended) The nano carbon ball according to claim 5, wherein the nano carbon ball is impregnated with an amount of the ~~impregnated~~ metal composition [[is]]

of from about 0.01 wt. % to about 30 wt. % on the basis of a total weight of the nano carbon ball.

14. (Currently amended) The nano carbon ball according to claim 13, wherein the amount of the metal composition is from about 0.01 wt. % to 10 wt. % on the basis of ~~[[a]]~~ the total weight of the nano carbon ball.

15. (Currently amended) The nano carbon ball according to claim 5, wherein the ~~spherical~~ hollow core has a diameter of from about 10 nm to about 1,000 nm.

16. (Currently amended) The nano carbon ball according to claim 15, wherein the ~~porous carbon~~ mesoporous shell has a thickness of from about 50 nm to about 500 nm.

17. (Currently amended) The nano carbon ball according to claim 5, wherein the nano carbon ball is used for deodorizing or eliminating the odor of methanthiol, methyl sulfide, dimethyl disulfide, hydrogen sulfide, ammonia, trimethyl amine, styrene, acetaldehyde, nitric oxide, nitrous oxide, or tobacco, ~~or smell generated from bathroom, kitchen or footwear.~~

18. (Currently amended) The nano carbon ball according to claim 5, wherein the nano carbon ball is used for deodorizing or eliminating the odor of a human.

19. (Previously presented) The nano carbon ball according to claim 5, wherein the nano carbon ball is used for a diaper or a hygiene product.

20. (New) The nano carbon ball according to claim 5, wherein the nano carbon ball is used for deodorizing or eliminating the odor from a bathroom, a kitchen or footwear.